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LUC-463/Barclay 12-10-6-9

CLAIM AMENDMENTSRECEIVED
CENTRAL FAX CENTER

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1 1. (Currently amended) An apparatus, comprising:
2 a network component that employs a) one or more call characteristics to make a
3 determination to initiate a request for one or more positions of one or more mobile
4 stations and b) one or more call parameters to identify one or more cellular network
5 cells associated with the one or more mobile stations, wherein at least one of the one or
6 more call parameters is a telephony number of the one or more mobile stations; and
7 wherein the network component receives, in response to the request, the one or
8 more positions of the one or more mobile stations from a position component; and
9 wherein the position component determines the one or more positions of the one
10 or more mobile stations continuously.

1 2. (Original) The apparatus of claim 1, wherein the network component
2 performs a comparison of the one or more call characteristics with one or more
3 thresholds to make the determination to initiate the request for the one or more
4 positions of the one or more mobile stations.

1 3. (Currently amended) The apparatus of claim 2, wherein the one or more
2 call characteristics comprise a pilot signal strength characteristic, and wherein the one
3 or more thresholds comprise a pilot signal strength threshold, and wherein the network
4 component performs a comparison of the pilot signal strength characteristic with the
5 pilot signal strength threshold; and

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6 wherein the network component makes the determination to initiate the request
7 for the one or more positions of the one or more mobile stations based on a result of the
8 comparison of the pilot signal strength characteristic with the pilot signal strength
9 threshold.

1 4. (Currently amended) The apparatus of claim 2, wherein the network
2 component employs the one or more call characteristics to create one or more call
3 statistics, and wherein the one or more thresholds comprise one or more call
4 characteristic thresholds and one or more call statistic thresholds; and

5 wherein the network component performs a comparison of the one or more call
6 statistics with the one or more call statistic thresholds; and

7 wherein the network component employs a comparison of the one or more call
8 characteristics with the one or more call characteristic thresholds and the comparison of
9 the one or more call statistics with the one or more call statistic thresholds to make the
10 determination to initiate the request.

1 5. (Currently amended) The apparatus of claim 2, wherein the network
2 component comprises an interface, and wherein the network component receives the
3 one or more thresholds from a service provider through employment of the interface.

1 6. (Original) The apparatus of claim 1, wherein the network component
2 employs the determination to initiate the request to promote an avoidance of congestion
3 in one or more cellular network communication paths.

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1 7. (Currently amended) The apparatus of claim 6, wherein the network
2 component makes the determination to initiate the request upon an exceedance of the
3 one or more call characteristics relative to one or more thresholds; and

4 wherein upon the exceedance of the one or more call characteristics relative to
5 the one or more thresholds, the network component and the position component
6 cooperate to obtain the one or more positions of the one or more mobile stations.

1 8. (Original) The apparatus of claim 7, wherein upon a termination of the
2 exceedance of the one or more call characteristics relative to the one or more
3 thresholds, the network component and the position component cooperate to
4 discontinue attainment of the one or more positions of the one or more mobile stations.

1 9. (Currently amended) The apparatus of claim 1, wherein the network
2 component employs the one or more call characteristics to perform a selection of the
3 one or more mobile stations from a plurality of mobile stations; and

4 wherein the network component employs the selection to formulate the request
5 for the one or more positions of the one or more mobile stations from the plurality of
6 mobile stations.

1 10. (Previously presented) The apparatus of claim 1, wherein the one or more
2 mobile stations are associated with the one or more cellular network cells; and

3 wherein the network component employs the one or more call characteristics to
4 perform a selection of the one or more cellular network cells from a plurality of cellular
5 network cells; and

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6 wherein the network component employs the selection to formulate the request
7 for the one or more positions of the one or more mobile stations that are associated with
8 the one or more cellular network cells.

1 11. (Currently amended) The apparatus of claim 10, wherein the network
2 component employs a switch component to identify the one or more mobile stations that
3 are associated with the one or more cellular network cells; and

4 wherein the network component employs the switch component to determine the
5 one or more positions of the one or more mobile stations that are associated with the
6 one or more cellular network cells.

1 12. (Currently amended) The apparatus of claim 1, wherein the network
2 component receives the one or more positions of the one or more mobile stations in
3 response to the request; and

4 wherein the network component employs the one or more positions of the one or
5 more mobile stations and the one or more call characteristics to develop a coverage
6 map.

1 13. (Currently amended) The apparatus of claim 1, further comprising:

2 a switch component that provides the one or more call characteristics to the
3 network component;

4 wherein the network component employs the one or more call characteristics to
5 make a determination to initiate a request to the switch component; and

6 wherein the switch component obtains the one or more positions of the one or
7 more mobile stations based on the request to the switch component.

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1 14. (Currently amended) The apparatus of claim 13, wherein the network
2 component provides to the switch component the one or more call parameters; and
3 wherein the switch component employs the one or more call parameters to
4 perform an identification of the one or more mobile stations from a plurality of mobile
5 stations; and
6 wherein the switch component employs the identification of the one or more
7 mobile stations from the plurality of mobile stations to obtain the one or more positions
8 of the one or more mobile stations.

1 15. (Currently amended) The apparatus of claim 14, wherein the one or more
2 mobile stations are associated with one or more calls; and
3 wherein the switch component employs the one or more call parameters to
4 perform an identification of the one or more calls from a plurality of calls; and
5 wherein the switch component employs the identification of the one or more calls
6 from the plurality of calls to obtain the one or more positions of the one or more mobile
7 stations that are associated with the one or more calls.

1 16. (Currently amended) The apparatus of claim 13, wherein the network
2 component and the switch component receive the one or more positions of the one or
3 more mobile stations from the position component; and
4 wherein the network component and the switch component cooperate to develop
5 a coverage map through employment of the one or more positions of the one or more
6 mobile stations.

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1 17. (Original) The apparatus of claim 16, wherein the position component
2 employs one or more of an Enhanced Forward Link Trilateration algorithm and an IS-
3 801 solution using an Assisted Global Positioning System (AGPS), Advanced Forward
4 Link Trilateration (AFLT) or combined AGPS/AFLT algorithm to determine the one or
5 more positions of the one or more mobile stations.

1 18. (Currently amended) A method, comprising the steps of:
2 initiating a request for one or more positions of one or more mobile stations
3 through employment of a) one or more call characteristics and b) one or more call
4 parameters to identify one or more cellular network cells associated with the one or
5 more mobile stations, wherein at least one of the one or more call parameters is a
6 telephony number of the one or more mobile stations;

7 receiving, in response to the request, the one or more positions of the one or
8 more mobile stations; and

9 determining the one or more positions of the one or more mobile stations
10 continuously.

1 19. (Original) The method of claim 18, wherein the step of initiating the
2 request for the one or more positions of the one or more mobile stations through
3 employment of the one or more call characteristics comprises the steps of:

4 performing a comparison of the one or more call characteristics with one or more
5 thresholds; and

6 initiating the request for the one or more positions of the one or more mobile
7 stations based on the comparison.

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1 20. (Previously presented) The method of claim 19, wherein the step of
2 initiating the request for the one or more positions of the one or more mobile stations
3 based on the comparison comprises the steps of:

4 determining the one or more call parameters associated with the one or more
5 thresholds;

6 identifying the one or more mobile stations from a plurality of mobile stations
7 through employment of the one or more call parameters; and

8 initiating the request for the one or more positions of the one or more mobile
9 stations through employment of the one or more call parameters.

1 21. (Currently amended) A computer-readable medium having computer
2 executable instructions for performing steps, comprising:

3 means in the one or more media for initiating a request for one or more positions
4 of one or more mobile stations through employment of a) one or more call
5 characteristics and b) one or more call parameters to identify one or more cellular
6 network cells associated with the one or more mobile stations, wherein at least one of
7 the one or more call parameters is a telephony number of the one or more mobile
8 stations.

1 22. (Previously presented) The apparatus of claim 16, wherein the position
2 component is pre-provisioned with one or more intervals of time to determine the one or
3 more positions of the one or more mobile stations.

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- 1 23. (Previously presented) The apparatus of claim 5, wherein the thresholds
2 provide a measure of a quality level of service provided to the one or more mobile
3 stations.

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